

# Integrated Dashboard for Training and Placement

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Abstract: The project titled "Integrated Dashboard for Training and Placement" is a student campus information system. That is a management system that is supported by a database. TPO plays a prominent role in every college, including most of them; so far, the work has been done manually. The goal is to automate the training and placement process in colleges. This application reduces manual work and increases optimisation, abstraction, and security. This web application will assist students and administrative officers in carrying out all activities related to Campus Rentals. This application can be used to manage student information for the college's training and placement cell, including details related to placements and other relevant information. Students will be able to view the eligibility criteria based on their percentage for upcoming placement drives and access technical and company-specific questions. It has a facility to maintain student details and reduce manual work. The Training and Placement Officer (TPO) can view information about the student, collect their resume, and utilise various add-on functionalities. This system can be accessed through a proper login.

Keywords: TPO, Placement, Student, College, Application

#### I. INTRODUCTION

In today's world, everyone wants things to be done with one click, but still, training and placement systems are managed manually [1]. The aim is to automate the training and placement management system. This application has the facility to store student details and keep them up to date. An administrator in the system can search for and view student information. Use of the internet enables placement coordinators to manage the placement process with the active participation of students. This has led to the development of a unique web-based training and placement management system for colleges [5].

The e-Training and Placement Management System provides information about students, the campuses to which

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they have applied, updated campus drives, and placements offered by them, allowing students to view and evaluate their opportunities. It also features a practice test section to provide students with experience. Confident about their campus preparation. The Online Training and Placement Management System is an application to facilitate registration and application filling for students. Users can easily access the system, and data can be retrieved quickly and efficiently. In the student login, they can provide personal details, educational qualifications, and professional skills. The administrator will provide information on the placement of appointed students [2].

TPO plays a vital role in this web application. The department TPO will create student accounts and provide them with login information. The principal will keep a record of the student's performance on campus and the number of placed and unplaced students so that he can advise the students about placements and drives. This project will benefit from student participation and interaction with teachers, as well as TPOs, enabling colleges to achieve significant success in placements. This web application allows students to upload their resumes and provide personal and academic details. Through this system, students can communicate using a chat box. Students can practice the aptitude tests assigned by their respective faculties during the upcoming semester. This system will facilitate training and placement management for TPOs, department coordinators, principals, faculty, and, of course, students. Through this application, colleges will have a well-developed website to inform their students about new opportunities and how to prepare for campus and work-integrated learning experiences.

#### **II. PROBLEM DEFINITION**

The proposed online training and placement system management system aims to provide greater accessibility, allowing users to add and retrieve information quickly. There are mainly three types of users: Administrators, Students, and Human Resources. An administrator is the primary user, receiving the highest priority over other users. Various functions include updating admin cases, approval, and sending information to students. Placement students can administer pre-assessment tests based on those from the previous year. The admin can view and approve various applications. Students can register and view details. Placement officers can log in through the HR department to view details of placed students and training details. The proposed online training and placement management system aims to eliminate the shortcomings of the existing system. It will add additional features beyond the current system. The

proposed system is a cost-effective way of doing the manual processes in the existing system [3].

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# III. LITERATURE SURVEY

Literature survey at SNJB's College of Engineering, Chandwad Overview: The proposed Online Training and Placement System management system aims to provide users with greater ease of use, allowing them to add and retrieve information quickly. For this, we conducted a literature survey at SNJB's Late Sau K. B. J. College of Engineering. From this survey, we are well aware of the entire placement and training process at SNJB's K. B. J. College of Engineering, which will be helpful for our integrated dashboard for training and placement.



# **IV. METHODOLOGY**

### Fig. 1: Methodology

#### A. Algorithm

- Step 1: Start
- Step 2: Login
- Step 3: Select to log in from a student account, Admin account, or TPO department account, which you can easily log in to, log out of, and update your profile.
- Step 4: Enter your username and password. You can also change your password using the 'Forgot Password' option from your profile.
- Step 5: Add / edit/delete/create faculty details, student details, company details and reports.
- Step 6: View student details /company and campus details, and apply for the campus drives and prepare for the same through material and practice tests provided.
- Step 7: Chat with other students and give practice tests from the exam module of the respective category.
- Step 8: View the list of places and non-placed students.
- Step 9: Log out.
- Step 10: Exit

#### V. TECHNOLOGIES

#### **B.** Frontend

HTML, CSS, and JavaScript are the languages that are used for front-end development. The structure, design, behavior, and content of everything on browser screens when websites, web applications, or mobile apps are opened are designed by front-end developers. JQuery is an open-source JavaScript library that simplifies the interactions between an HTML or CSS document, or the Document Object Model (DOM), and JavaScript [4].

### C. Backend

PHP is considered highly approachable for web development for several reasons. PHP is also regarded as easy to work with, making it less challenging to find talent proficient in it than in some other, more niche programming languages. Apart from this, PHP is designed to work with the most commonly used database languages, such as MySQL. Designed for handling large amounts of data on the server side, PHP seamlessly integrates into the web development landscape. One of the advantages is that PHP has a massive community of developers and a wide range of documentation to help you get started using it [6].

#### D. Database

PhpMyAdmin is a free and open-source programme that provides functionality for operating and managing MySQL over the internet. It gives the user easy control and supervision over the database through a graphical user interface known as phpMyAdmin. The GUI is written in PHP. Over time, it has gained considerable trust and demand for providing a web-based MySQL solution. The user can use the phpMyAdmin user interface to interact with MySQL while still executing SQL queries directly. The GUI enables users to perform various manipulation operations on the database, including editing, creating, dropping, and altering fields, tables, and indexes. Thus, phpMyAdmin has a crucial role to play in handling and creating databases [7].

#### VI. MODELING AND ANALYSIS



Fig. 2: Modelling and Analysis

#### E. Admin Model

The main admin module is the TPO module. The purpose of this module is to add a list of faculties in the college, organised by department. Additionally, the departments of the college, as well as the companies coming to the campus, have been added by the TPO. These data are only added to the system once.

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When the campuses come, the TPO will add the campus for the companies listed in the system. When a student is placed, TPO will add that data to the system, and then the student and their faculty will be notified. Also, the reports can be generated by TPO.

#### F. Student Model

The students are registered by their respective departmental faculties. Students will then receive their passwords via email and log in to the system. Students can also update their profile information in their login, including educational details, personal information, and achievements. When the TPO adds a campus, students can apply through the respective links. Students can chat with their alumni or other students using the chat module provided in the system. Students are also provided with an exam module, where they will be assigned practice tests covering the topics required for their placement. They can also view the score of their tests. When they are placed, they will be notified via email.

#### G. Tpo Model

The main admin module is the TPO module. The purpose of this module is to add a list of faculties in the college, organised by department. Additionally, the departments of the college, as well as the companies coming to the campus, have been added by the TPO. These data are only added to the system once. When the campuses come, the TPO will add the campus for the companies listed in the system. When a student is placed, TPO will add that data to the system, and then the student and their faculty will be notified. Also, the reports can be generated by TPO.



Fig. 3: Class Diagram

# VII. RESULT





# I. Registration for Students:

Create Your Profile			
First Name *		Password *	
Last Name *		Confirm Password *	
Email*		Phone Number	
Brief intro about yourself *		Address	
Date Of Birth	~	City	
dd-mm-yyyy	۵		
Age		State	
Passing Year		Enter Skills	
dd mm-yyyy			
Highest Qualification		Designation	1
Stream		File Format PDF Only!	
□ Laccept terms & conditions		Choose File No file chosen	
Register		File Format NP4 Only!	
		Choose File No file chosen	

# Fig. 5: Students Registration UI

#### J. Registration for Top:

Un-Placed	Hanne Lugar Connact
Placement	t Cell Profile
Full Name	Password
Designation	Confirm Password
Website	Phone Number
Email	Select Country ~
Roles & Responsibility	Upload your prefile picture Choose File No file chosen
lacopterns & conditions Register	
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Fig. 6: TPO Registration UI

# K. Login Admin:



Fig. 7: Admin Login UI

L. Student Login:



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Fig. 8: Student Login UI

#### M. Top Login:





#### N. Top Dashboard:



Fig. 10: TPO Dashboard UI

#### **O.** Admin Dashboard:



Fig. 11: Admin Dashboard UI

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#### VIII. CONCLUSION

This system is a user-friendly application for both TPOs and users. This will ensure smooth and less error-prone training and placement within the organisation. The existing system requires human attention and intervention for most tasks, rendering it prone to errors. Finding and updating student data, as well as providing placement and training information to each student, is a significant challenge. Additionally, data breaches are mitigated, as everything is authorised and automated. The website is accessible via any device. This system reduces the work of TPO. The main objective is to facilitate the recruitment process. This is accomplished through the e-Training and Placement Management System. It is also possible to display instructions on any particular topic for each section. Once the student has entered the complete data regarding merit-based marks, co-curricular activities, personal details, etc., students can apply for a placement drive. Overall, this web application is beneficial for students. Additionally, this system offers a suitable platform for students to interact with one another through the chat box. Staff can add practice tests so students can practice for placement exams; practising will help them feel more confident when taking their actual exams. This system offers exam module facilities, allowing students to take practice exams. Additionally, students can upload their resumes and view those of other students. This system is a user-friendly application for both TPOs and users. This will ensure smooth and error-free training and placement in organisations.

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#### REFERENCES

- Baile, Aishwarya, Pratik Sawarkar, Pratik Wankhede, Rajat 1. Manwatkar, Raman Barsagade, and Preeti Karmore. "A Review on Training and Placement System," (2021).
- Godiwala, Bhumi, et al. "Training and placement cell android 2 application." Proceedings of the 3rd International Conference on Technology Advances Science (ICAST). in 2020. https://doi.org/10.2139/ssrn.3565457
- Choudhary, Swati, et al." Advance Training and placement web 3. portal." International Journal of Technical Research and Application ISSN: 2320-8163 4.2 (2016).
- Raut, Jidnyasa, et al." CABAL: Training and Placement Departmental 4. Portal." (2019): 01-04.
- 5. Shenoy, Varun, and P. S. Aithal. "Changing Approaches in Campus Placements-A new futuristic Model." International Journal of Scientific Research and Modern Education (IJSRME) ISSN (Online) (2016)
- Pavani, V., et al. "Feature Extraction based Online Job Portal." 2022 6. International Conference on Electronics and Renewable Systems (ICEARS). IEEE 2022.



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https://doi.org/10.1109/ICEARS53579.2022.9752295

 Dave, Chitrak Vimalbhai. "Online Job Portal-A Better Way for Finding Jobs in the COVID-19 Pandemic."

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